

Appl. No. : **known**  
Filed : **Herewith**

IN THE CLAIMS:

**Please cancel Claims 1-20 without prejudice.**

**Please add the following new claims:**

21. A method of transmitting signalling reports from a mobile station to a serving base station in a cellular communications system comprising a network infrastructure and a plurality of base stations connected thereto, the method comprising:

transmitting radio measurement reports intended for use by the serving base station to allocate a radio resource to the mobile station; and

transmitting a radio resource signalling report intended for use by a service node in the network infrastructure to allocate a radio recourse to the mobile station.

22. The method of Claim 21, further comprising encapsulating the radio resource signalling reports in the form of a mobile-originating SMS message.

23. The method of Claim 21, wherein the transmitting the radio resource signalling report occurs during a dedicated channel traffic connection for the mobile station.

24. The method of Claim 21, wherein the radio resource signalling report comprises downlink quality data measured for the serving base station.

25. The method of Claim 21, wherein the radio resource signalling report comprises signal strength data measured for neighboring cell base stations.

26. The method of Claim 21, wherein the radio resource signalling data comprises data specifying the current requirements of the mobile station.

27. The method of Claim 26, wherein the current requirements comprises at least one of bandwidth signal-to-noise ratio, radio path loss, cost and quality of service requirements.

28. The method of Claim 21, wherein the transmitting the radio resource signalling report occurs in response to a request from the cellular communications system.

29. The method of Claim 21, wherein the transmitting the radio resource signalling report occurs in response to a request from the user.

30. A method of transmitting radio resource signalling reports from a mobile station in a cellular communications system, comprising:

transmitting the reports in the form of mobile-originating SMS messages.

31. A method of transmitting signalling reports from a mobile station to a cellular communications system comprising a plurality of base stations including a base station serving the mobile station via a radio link, the method comprising:

encapsulating a radio resource signalling report before transmission over the radio link, such as to prevent the serving base station from intercepting the radio resource signalling report.

32. A mobile station for a cellular communications system, comprising a transmitter configured to transmit radio measurement reports intended for use by a serving base station to allocate a radio resource to the mobile station, and to transmit a radio resource signalling report intended for use by a service node in a network infrastructure to allocate a radio recourse to the mobile station.

33. A cellular communications system comprising:

a plurality of base stations adapted to conducting communications with mobile stations via a radio interface; and

a service node adapted to receive radio resource signalling reports generated by mobile stations when in connected mode in the system, the system being arranged to route the reports from the plurality of base stations to the service node.

34. The system of Claim 33, wherein the radio recourse signalling reports comprise at least one of downlink quality data measured by the mobile stations and neighbor cell signal strength data measured by the mobile stations.

35. The system of Claim 33, wherein the radio resource signalling reports comprise data specifying bandwidth and at least one of cost and quality of service requirements for the mobile stations.

36. The system of Claim 33, wherein the service node is adapted to select radio access nodes to be allocated to the mobile stations on the basis of the reports.

37. The system of Claim 36, wherein the service node is adapted to select radio access nodes to be allocated to the mobile stations on the basis of individual bandwidth and at least one of quality of service and cost requirements for the mobile stations.

38. The system of Claim 33, wherein the base stations are adapted to select radio resources to be allocated to the mobile stations on the basis of radio measurement reports received from the mobile stations.